

### Abstract

The present invention relates to a method and system for reducing microbial burden on a food product. The method includes contacting the food product with an antimicrobial agent and irradiating the food product. The system includes an applicator adapted and configured for contacting a food product with an antimicrobial agent and an irradiator adapted and configured for irradiating a food product. The antimicrobial agent can be a peroxy-carboxylic acid.

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10043827 01.10.2010